AUTHOR INDEX TO VOLUME 70

Abbate, G., U. Bernini, P. Maddalena, S. De Nicola, P. Mormile and G. Pierattini, Interferometric technique for the determination of thermal nonlinearities in semiconductor glasses 70 (1989) 502
Abendroth, H., see B. Lu 70 (1989) 177
Abraham, M., see A. Roeseler 70 (1989) 8
Agarwal, G.S., see M. Sanjay Kumar 70 (1989) 538
Arecchi, F.T., W. Gadomski, R. Meucci and J.A. Roversi, Delayed bifurcation at the threshold of a swept gain CO_2 laser 70 (1989) 155
Arimondo, E., see D. Hennequin 70 (1989) 253
Arnesson, J., D. Cui, S. Gnepf and F.K. Kneubühl, First experimental evidence of nonlinear gain saturation in distributed feeback (DFB) and helical feedback (HFB) lasers 70 (1989) 421
Arya, K., see S.V. Branis 70 (1989) 355

Baba, K., see S. Kawakami 70 (1989) 25
Balkanski, M., see E. Haro-Poniatowski 70 (1989) 70
Barkov, L.M., D.A. Melik-Pashayev and M.S. Zolotorev, Nonlinear Faraday rotation in samarium vapor 70 (1989) 467
Barr, J.R.M., Modelocking using mirrors with intensity dependent reflection coefficients 70 (1989) 229
Barta, Č., see H.H. Sample 70 (1989) 325
Barta Jr., Č., see H.H. Sample 70 (1989) 325
Bass, F.G., Yu.S. Kivshar, V.V. Konotop and G.M. Pritula, On stochastic dynamics of solitons in inhomogeneous optical fibers 70 (1989) 309
Bassett, D., see O. Willi 70 (1989) 487
Batani, D., F. Bianconi, A. Giulietti, D. Giulietti and L. Nocera, Second harmonic polarization and conversion efficiency in laser produced sparks 70 (1989) 38
Baton, S.-D., C. Labaune, G. Mathieussent and W. Seka, Study of Schlieren diagnostics to investigate filamentation in plasmas with long density scale lengths 70 (1989) 50
Bernage, P., P. Niay and H. Bocquet, Optically pumped lasers from Na_2 $D\,^1\Pi_u$ state 70 (1989) 319
Bernini, U., see G. Abbate 70 (1989) 502
Berthier, S. and K. Driss-Khodja, Calculation of 2D optical dielectric function of inhomogeneous media by real space renormalization 70 (1989) 29
Bianconi, F., see D. Batani 70 (1989) 38
Birman, J.L., see S.V. Branis 70 (1989) 355
Bloomfield, L.A., Excimer-laser pumped infrared dye laser at 907–1023 nm 70 (1989) 223
Bobb, L.C., see M.B. Rankin 70 (1989) 345
Bocquet, H., see P. Bernage 70 (1989) 319
Bourrely, C., P. Chiappetta and T. Lemaire, Electromagnetic scattering by large rotating particles in the eikonal formalism 70 (1989) 173
Boyer, J.H., see T.G. Pavlopoulos 70 (1989) 425
Branis, S.V., K. Arya and J.L. Birman, Novel effects in transient optical reflectivity from bounded nonlocal media via exciton polaritons 70 (1989) 355

AUTHOR INDEX TO VOLUME 70

Abbate, G., U. Bernini, P. Maddalena, S. De Nicola, P. Mormile and G. Pierattini, Interferometric technique for the determination of thermal nonlinearities in semiconductor glasses 70 (1989) 502
Abendroth, H., see B. Lu 70 (1989) 177
Abraham, M., see A. Roeseler 70 (1989) 8
Agarwal, G.S., see M. Sanjay Kumar 70 (1989) 538
Arecchi, F.T., W. Gadomski, R. Meucci and J.A. Roversi, Delayed bifurcation at the threshold of a swept gain CO_2 laser 70 (1989) 155
Arimondo, E., see D. Hennequin 70 (1989) 253
Arnesson, J., D. Cui, S. Gnepf and F.K. Kneubühl, First experimental evidence of nonlinear gain saturation in distributed feeback (DFB) and helical feedback (HFB) lasers 70 (1989) 421
Arya, K., see S.V. Branis 70 (1989) 355

Baba, K., see S. Kawakami 70 (1989) 25
Balkanski, M., see E. Haro-Poniatowski 70 (1989) 70
Barkov, L.M., D.A. Melik-Pashayev and M.S. Zolotorev, Nonlinear Faraday rotation in samarium vapor 70 (1989) 467
Barr, J.R.M., Modelocking using mirrors with intensity dependent reflection coefficients 70 (1989) 229
Barta, Č., see H.H. Sample 70 (1989) 325
Barta Jr., Č., see H.H. Sample 70 (1989) 325
Bass, F.G., Yu.S. Kivshar, V.V. Konotop and G.M. Pritula, On stochastic dynamics of solitons in inhomogeneous optical fibers 70 (1989) 309
Bassett, D., see O. Willi 70 (1989) 487
Batani, D., F. Bianconi, A. Giulietti, D. Giulietti and L. Nocera, Second harmonic polarization and conversion efficiency in laser produced sparks 70 (1989) 38
Baton, S.-D., C. Labaune, G. Mathieussent and W. Seka, Study of Schlieren diagnostics to investigate filamentation in plasmas with long density scale lengths 70 (1989) 50
Bernage, P., P. Niay and H. Bocquet, Optically pumped lasers from Na_2 $D\,^1\Pi_u$ state 70 (1989) 319
Bernini, U., see G. Abbate 70 (1989) 502
Berthier, S. and K. Driss-Khodja, Calculation of 2D optical dielectric function of inhomogeneous media by real space renormalization 70 (1989) 29
Bianconi, F., see D. Batani 70 (1989) 38
Birman, J.L., see S.V. Branis 70 (1989) 355
Bloomfield, L.A., Excimer-laser pumped infrared dye laser at 907–1023 nm 70 (1989) 223
Bobb, L.C., see M.B. Rankin 70 (1989) 345
Bocquet, H., see P. Bernage 70 (1989) 319
Bourrely, C., P. Chiappetta and T. Lemaire, Electromagnetic scattering by large rotating particles in the eikonal formalism 70 (1989) 173
Boyer, J.H., see T.G. Pavlopoulos 70 (1989) 425
Branis, S.V., K. Arya and J.L. Birman, Novel effects in transient optical reflectivity from bounded nonlocal media via exciton polaritons 70 (1989) 355

Bratengeier, K., H.-G. Purucker and A. Laubereau, Free induction decay of inhomogeneously broadened lines 70 (1989) 393
Bromley, L.J., A. Guy and D.C. Hanna, Synchronously pumped optical parametric oscillation in KTP 70 (1989) 350
Buller, G.S., C.R. Paton, S.D. Smith and A.C. Walker, Optically bistable nonlinear interference filters for use with near-infrared laser diodes 70 (1989) 522
Burlamacchi, P., A. Tofani and P. Vanni, Performance of a quasi-static gas flow CO_2 laser 70 (1989) 405

Cai, W., see Y. Wang 70 (1989) 462
Camparo, J.C., Y.C. Chan, B. Jaduszliwer and J. Malenfant, Injection current calibration of diode laser wavelengths 70 (1989) 416
Carroll, J.E., see T.Y.D. Lam 70 (1989) 293
Caulfield, H.J., see B. Javidi 70 (1989) 369
Chan, Y.C., see J.C. Camparo 70 (1989) 416
Cheng, W.A., see C.M. Savage 70 (1989) 439
Cheng, Y., see Y. Wang 70 (1989) 462
Cherri, A.K. and M.A. Karim, Symbolic substitution based flagged arithmetic unit design using polarization-encoded optical shadow-casting system 70 (1989) 455
Chiappetta, P., see C. Bourrely 70 (1989) 173
Cho, Y., see S. Ohke 70 (1989) 92
Clausen, R., see K. Petermann 70 (1989) 483
Clayton, C.E., see C. Joshi 70 (1989) 44
Corbalan, R., see R. Vilaseca 70 (1989) 131
Cross, P.H., see E.K. Gorton 70 (1989) 245, 399
Cui, D., see J. Arnesson 70 (1989) 421

Davis, J.P., see M.B. Rankin 70 (1989) 345
Deligeorgiev, T., see N. Michailov 70 (1989) 137
Delisle, C., see C.J. Marriott 70 (1989) 61
De Nicola, S., see J. Ma 70 (1989) 181
De Nicola, S., see G. Abbate 70 (1989) 502
De Oliveira, F.A.M., see M.S. Kim 70 (1989) 473
De Tomasi, F., see D. Hennequin 70 (1989) 253
DeVoe, R.G., see R. Kallenbach 70 (1989) 56
Doualan, J.L., Colour centre laser pumped by a laser diode 70 (1989) 225
Doualan, J.L., see L. Mechernene 70 (1989) 334
Dragila, R. and S. Vukovic, Nonlinear surface waves propagating along a boundary of magnetoactive plasma and vacuum 70 (1989) 450
Driss-Khodja, K., see S. Berthier 70 (1989) 29
Dykman, M.I. and A.L. Velikovich, Bistability and self-oscillations in a cavity due to a self-induced optical anisotropy 70 (1989) 151

Eason, R.W., see J.A. Khoury 70 (1989) 272
Eggers, H., see B. Lu 70 (1989) 177
Eichmann, G., see J. Zhu 70 (1989) 373
Eichmann, G., see Y. Li 70 (1989) 379
Eliel, E.R., see F. Wittgrefe 70 (1989) 315

Ernst, W.E., see G. Schilling 70 (1989) 428

Fellman, T., see B. Ståhlberg 70 (1989) 329
Fernandez Guasti, M., see E. Haro-Poniatowski 70 (1989) 70
Fischer, B., see S. Weiss 70 (1989) 515
Frejlich, J., A.A. Kamshilin, V.V. Kulikov and E.V. Mokrushina, Adaptive holographic interferometry using photorefractive crystals 70 (1989) 82
Fronzoni, L., see D. Hennequin 70 (1989) 253
Fu, Y.-F., see S.-M. Liu 70 (1989) 185
Fujiwara, H., see K. Nakagawa 70 (1989) 73

Gadomski, W., see F.T. Arecchi 70 (1989) 155
Ginzburg, N.S. and A.S. Sergeev, Canalization of radiation by a ribbon relativistic electron beam in free electron lasers 70 (1989) 218
Giranda, C., see M.B. Rankin 70 (1989) 345
Giulietti, A., see D. Batani 70 (1989) 38
Giulietti, A., see O. Willi 70 (1989) 487
Giulietti, D., see D. Batani 70 (1989) 38
Gnepf, S., see J. Arnesson 70 (1989) 421
Golz, M., see A. Roeseler 70 (1989) 8
Gorton, E.K., P.H. Cross and E.W. Parcell, A semiconductor preionised DF laser 70 (1989) 245
Gorton, E.K., E.W. Parcell and P.H. Cross, Discharge production of fluorine for DF lasers 70 (1989) 399
Gouesbet, G., see B. Maheu 70 (1989) 259
Gouveia-Neto, A.S., P.G.J. Wigley and J.R. Taylor, A synchronously pumped dispersion compensated fibre Raman ring laser around 1.4 μm 70 (1989) 128
Gravey, P., G. Picoli and J.Y. Labandibar, Stabilization of photorefractive two-beam coupling in InP:Fe under high dc fields by temperature control 70 (1989) 190
Gréhan, G., see B. Maheu 70 (1989) 259
Gu, H.-E., L. Qi, L.-F. Wan and H.-S. Guo, The two-step creation and tunable laser operation of F_3^+ centers in LiF crystals 70 (1989) 141
Guo, H.-S., see H.-E. Gu 70 (1989) 141
Gupta, G.P., see B.K. Sinha 70 (1989) 202
Guy, A., see L.J. Bromley 70 (1989) 350

Ha, B., see Y. Li 70 (1989) 379
Ha, D.H., see H.W. Lee 70 (1989) 119
Haarer, D., see A. Rebane 70 (1989) 478
Hahn, E.L., see M. Lukac 70 (1989) 195
Hall, T.A. and L.M. Newell, Ultra-short pulse filamentation in a laser-produced plasma 70 (1989) 213
Hall, T.J., see C. Stace 70 (1989) 509
Han, K.S., see I.H. Hwang 70 (1989) 341
Hanna, D.C., see L.J. Bromley 70 (1989) 350
Hänsch, T.W., see R. Kallenbach 70 (1989) 56
Harde, H., see R. Schulz 70 (1989) 239
Haro-Poniatowski, E., M. Fernandez Guasti, E.R. Mendez and M. Balkanski, Optical bistability in bulk $GeSe_2$ 70 (1989) 70
Harvey, D., see C.A. Millar 70 (1989) 304

Hawkins, K.C., see H.N. Rutt 70 (1989) 411
He, G.-S., D. Liu and S.-H. Liu, Coherent Raman spectra and Raman-enhanced self-focusing in multimode fiber 70 (1989) 145
Hennequin, D., F. de Tomasi, L. Fronzoni, B. Zambon and E. Arimondo, Influence of noise on the quasi-homoclinic behavior of a laser with saturable absorber 70 (1989) 253
Heumann, E., see K. Petermann 70 (1989) 483
Hittmair, O., see J. Seke 70 (1989) 281
Honda, T., see Q.-S. Ru 70 (1989) 445
Hoogerland, M.D., see F. Wittgrefe 70 (1989) 315
Horner, J.L., see B. Javidi 70 (1989) 369
Hussain, G., see J.A. Khoury 70 (1989) 272
Hwang, I.H., K.S. Han and J.H. Lee, XeCl laser pumped iodine laser using t-C_4F_9I 70 (1989) 341

Izawa, Y., see H. Niki 70 (1989) 16

Jaduszliwer, B., see J.C. Camparo 70 (1989) 416
Javidi, B., J.L. Horner and H.J. Caulfield, Deconvolution using nonlinear joint transform correlator 70 (1989) 369
Joshi, A. and S.V. Lawande, The effects of negative binomial field distribution on Rabi oscillations in a two-level atom 70 (1989) 21
Joshi, C., C.E. Clayton, K. Marsh, Y. Sakawa and R.L. Savage Jr., Evidence for periodic breakup of a radially modulated 0.35 μm laser beam due to thermal self-focusing in a plasma 70 (1989) 44
Jungner, P., see B. Ståhlberg 70 (1989) 329

Kalafati, Yu.D., see Yu.A. Rzhanov 70 (1989) 161
Kallenbach, R., C. Zimmermann, D.H. McIntyre, T.W. Hänsch and R.G. DeVoe, A blue dye laser with sub-kilohertz stability 70 (1989) 56
Kamshilin, A.A., see J. Frejlich 70 (1989) 82
Karim, M.A., see A.K. Cherri 70 (1989) 455
Karttunen, S.J., see O. Willi 70 (1989) 487
Kataoka, T., see S. Kawakami 70 (1989) 25
Kawakami, S., T. Kataoka and K. Baba, Circle diagram representation of optical constants of metals and metal films 70 (1989) 25
Keinonen, T., see O. Salminen 70 (1989) 277
Kelly, S.M.J., Mode-locking dynamics of a laser coupled to an empty external cavity 70 (1989) 495
Kessler, T., see S. Skupsky 70 (1989) 123
Khoury, J.A., G. Hussain and R.W. Eason, Contrast manipulation and controllable spatial filtering via photorefractive two-beam coupling 70 (1989) 272
Kim, D.H., see Y. Li 70 (1989) 379
Kim, J.K., see H.W. Lee 70 (1989) 119
Kim, M.S., F.A.M. de Oliveira and P.L. Knight, Simultaneous jumps in two two-level atoms 70 (1989) 473
Kivshar, Yu.S., see F.G. Bass 70 (1989) 309
Klíma, M., see H.H. Sample 70 (1989) 325
Kneubühl, F.K., see J. Arnesson 70 (1989) 421
Knight, P.L., see M.S. Kim 70 (1989) 473
Konotop, V.V., see F.G. Bass 70 (1989) 309

Koštál, E., see H.H. Sample 70 (1989) 325
Kostrzewski, A., see Y. Li 70 (1989) 379
Kovachev, L.M., see I.M. Uzunov 70 (1989) 389
Kuckartz, M., see R. Schulz 70 (1989) 239
Kulikov, V.V., see J. Frejlich 70 (1989) 82
Kumbhare, S.R., see B.K. Sinha 70 (1989) 202

Labandibar, J.Y., see P. Gravey 70 (1989) 190
Labaune, C., see S.-D. Baton 70 (1989) 50
Lagendijk, A., see R. Vreeker 70 (1989) 365
Lagendijk, A., see M. van Exter 70 (1989) 433
Laguarta, F., see R. Vilaseca 70 (1989) 131
Lam, T.Y.D. and J.E. Carroll, Double layer associative memories 70 (1989) 293
Laubereau, A., see K. Bratengeier 70 (1989) 393
Lawande, S.V., see A. Joshi 70 (1989) 21
Ledig, M., see K. Petermann 70 (1989) 483
Lee, H.W., T.D. Lee, C.O. Park, D.H. Ha and J.K. Kim, Crystallization of hydrogenated amorphous silicon films by pulsed ruby laser irradiation 70 (1989) 119
Lee, J.H., see I.H. Hwang 70 (1989) 341
Lee, T.D., see H.W. Lee 70 (1989) 119
Lemaire, T., see C. Bourrely 70 (1989) 173
Li, Y. and F.T.S. Yu, Intensity distribution near the focus of an apertured focused gaussian beam 70 (1989) 1
Li, Y., see J. Zhu 70 (1989) 373
Li, Y., B. Ha, A. Kostrzewski, D.H. Kim and G. Eichmann, Optical position-coded multiple-valued logic and arithmetic using liquid-crystal TVs and holograms 70 (1989) 379
Li, Y.-L., see M.-J. Zhao 70 (1989) 67
Liang, M., S. Wu, L. Liu and Z. Wang, A novel optical multichannel scale-range-tunable Fourier transforming system: theory 70 (1989) 299
Lin, B., see Y. Wang 70 (1989) 234
Lin, S., L. Liu and Z. Wang, Optical implementation of 2-D Hopfield model for 2-D associative memory 70 (1989) 87
Liu, D., see G.-S. He 70 (1989) 145
Liu, L., see S. Lin 70 (1989) 87
Liu, L., see J. Ma 70 (1989) 181
Liu, L., Lau effect in a multi-grating system 70 (1989) 267
Liu, L., see M. Liang 70 (1989) 299
Liu, S.-H., see G.-S. He 70 (1989) 145
Liu, S.-M., G.-Y. Zhang, J.-L. Wang, X.-Y. Ma and Y.-F. Fu, Quasi-periodic oscillations in photoinduced conical light scattering from $LiNbO_3$:Fe crystals 70 (1989) 185
Lo, D. and J.-G. Xie, Superfluorescent emission from a discharge-excited rare-gas halide system 70 (1989) 248
Loudon, R., Graphical representation of squeezed-state variances 70 (1989) 109
Lu, B., X. Yang, H. Abendroth and H. Eggers, Time-average subtraction method in electronic speckle pattern interferometry 70 (1989) 177
Lukac, M. and E.L. Hahn, Spectroscopy of symmetry broken optical doublets in Pr^{+3}:LaF_3 70 (1989) 195

Ma, J., L. Liu, S. Wu, Z. Wang, P. Mormile, G. Pierattini and S. De Nicola, Photorefractive spatial light modulation by electrocontrolled beam coupling in SBN:Ce crystals 70 (1989) 181

Ma, X.-Y., see S.-M. Liu 70 (1989) 185
Maddalena, P., see G. Abbate 70 (1989) 502
Maheu, B., G. Gréhan and G. Gouesbet, Ray localization in gaussian beams 70 (1989) 259
Malenfant, J., see J.C. Camparo 70 (1989) 416
Margerie, J., see L. Mechernene 70 (1989) 334
Marriott, C.J. and C. Delisle, Shift in the position of the bifurcation point in an acousto-optic bistable device with swept parameter 70 (1989) 61
Marsh, K., see C. Joshi 70 (1989) 44
Martorell, J., see R. Vilaseca 70 (1989) 131
Mathieussent, G., see S.-D. Baton 70 (1989) 50
Mazighi, K., see L. Mechernene 70 (1989) 334
McCarthy, K.A., see H.H. Sample 70 (1989) 325
McIntyre, D.H., see R. Kallenbach 70 (1989) 56
Mechernene, L., J.L. Doualan, J. Margerie and K. Mazighi, Flashlamp pumped tunable laser emission of "F_{2A}" centres in $SrF_2:Na^+$ 70 (1989) 334
Melik-Pashayev, D.A., see L.M. Barkov 70 (1989) 467
Mendez, E.R., see E. Haro-Poniatowski 70 (1989) 70
Meucci, R., see F.T. Arecchi 70 (1989) 155
Meystre, P. and J.J. Slosser, Destruction of quantum coherence in a micromaser by finite detection efficiency 70 (1989) 103
Michaelian, S.A., see S.T. Yezekian 70 (1989) 493
Michailov, N., T. Deligeorgiev, V. Petrov and I. Tomov, Novel absorber for passive mode-locking of Rhodamine 6G dye laser 70 (1989) 137
Millar, C.A., D. Harvey and P. Urquhart, Fibre reflection Mach–Zehnder interferometer 70 (1989) 304
Minemoto, T., see K. Nakagawa 70 (1989) 288
Mitev, V.M., see I.M. Uzunov 70 (1989) 389
Miyamoto, T., see H. Niki 70 (1989) 16
Mokrushina, E.V., see J. Frejlich 70 (1989) 82
Mormile, P., see J. Ma 70 (1989) 181
Mormile, P., see G. Abbate 70 (1989) 502

Nakagawa, K. and H. Fujiwara, Real-time and double-exposure phase-conjugate interferometries using eosin-doped gelatin film 70 (1989) 73
Nakagawa, K. and T. Minemoto, Improvement of Young's fringes' visibility in speckle photography by use of BSO-PROM device 70 (1989) 288
Nakai, S., see H. Niki 70 (1989) 16
Newell, L.M., see T.A. Hall 70 (1989) 213
Niay, P., see P. Bernage 70 (1989) 319
Niki, H., T. Miyamoto, Y. Izawa, S. Nakai and C. Yamanaka, Hyperfine structure and isotope shift measurements on gadolinium levels by a laser-induced fluorescence spectroscopy 70 (1989) 16
Nocera, L., see D. Batani 70 (1989) 38

Ohke, S., T. Umeda and Y. Cho, TM-mode propagation and form birefringence in GaAs-AlGaAs multiple quantum well optical waveguide 70 (1989) 92
Ohyama, N., see Q.-S. Ru 70 (1989) 445

Parcell, E.W., see E.K. Gorton 70 (1989) 245, 399
Park, C.O., see H.W. Lee 70 (1989) 119
Paton, C.R., see G.S. Buller 70 (1989) 522
Pavlopoulos, T.G., M. Shah and J.H. Boyer, Efficient laser action from 1,3,5,7,8-pentamethylpyrromethene-BF_2 complex and its disodium 2,6-disulfonate derivative 70 (1989) 425
Pegg, D.T., see J.A. Vaccaro 70 (1989) 529
Pellinen, M., see O. Salminen 70 (1989) 277
Petermann, K., R. Clausen, E. Heumann and M. Ledig, Time resolved excited state absorption of Mn^{2+} 70 (1989) 483
Petrossian, K.B., see S.T. Yezekian 70 (1989) 493
Petrov, V., see N. Michailov 70 (1989) 137
Picoli, G., see P. Gravey 70 (1989) 190
Pierattini, G., see G. Abbate 70 (1989) 502
Pierattini, G., see J. Ma 70 (1989) 181
Pokhsrarian, K.M., see S.T. Yezekian 70 (1989) 493
Powell, A.K., see C. Stace 70 (1989) 509
Pritula, G.M., see F.G. Bass 70 (1989) 309
Puri, A., see J.G. Sun 70 (1989) 33
Purucker, H.-G., see K. Bratengeier 70 (1989) 393

Qi, L., see H.-E. Gu 70 (1989) 141
Qian, Y., see Y. Wang 70 (1989) 234

Rankin, M.B., J.P. Davis, C. Giranda and L.C. Bobb, Two-photon-excited bidirectional emission in xenon 70 (1989) 345
Rattay, F., see J. Seke 70 (1989) 281
Rebane, A. and D. Haarer, Dephasing processes as studied by two pulse photon echoes and photochemically accumulated echoes: the question of spectral diffusion in a doped organic polymer matrix 70 (1989) 478
Roeseler, A., M. Golz, U. Trutschel and M. Abraham, Prismless excitation of surface plasmons in the infrared spectral region by ATR 70 (1989) 8
Roversi, J.A., see F.T. Arecchi 70 (1989) 155
Ru, Q.-S., N. Ohyama and T. Honda, Constant radial shearing interferometry with two spiral phase gratings 70 (1989) 445
Rutt, H.N. and K.C. Hawkins, Pulsed optically pumped laser and maser action in isotopically substituted OCS 70 (1989) 411
Rzhanov, Yu.A. and Yu.D. Kalafati, Spatial structure multistability in an array of optically bistable elements 70 (1989) 161

Sakawa, Y., see C. Joshi 70 (1989) 44
Salminen, O., T. Keinonen and M. Pellinen, On holographic properties of methylene blue sensitized dichromated gelatin developed without posthardening 70 (1989) 277
Sample, H.H., K.A. McCarthy, Č. Barta, E. Koštál, M. Klíma and Č. Barta Jr., Zero optical rotatory power in mercurous chloride crystals 70 (1989) 325
Sanjay Kumar, M. and G.S. Agarwal, Possibility of new resonances in transient nonlinear spectroscopy 70 (1989) 538
Savage, C.M. and W.A. Cheng, On quantum superpositions in dispersive optical bistability 70 (1989) 439

Savage Jr., R.L., see C. Joshi 70 (1989) 44
Schilling, G., W.E. Ernst and N. Schwentner, Generation of VUV radiation by frequency tripling in Ar and Kr crystals 70 (1989) 428
Schlicher, R.R., Jaynes–Cummings model with atomic motion 70 (1989) 97
Schulz, R., M. Kuckartz and H. Harde, A fiber grating Raman laser generating subpicosecond pulses 70 (1989) 239
Schwentner, N., see G. Schilling 70 (1989) 428
Seely, J.F., Transmission filter for the "water-window" wavelength region 23–44 Å 70 (1989) 207
Seka, W., see S.-D. Baton 70 (1989) 50
Seke, J., O. Hittmair and F. Rattay, Collapse and revival phenomena in the many-atom Jaynes–Cummings model in the presence of initial Fock- and coherent-state fields 70 (1989) 281
Senthil Kumar, A. and R.M. Vasu, Imaging with oriented photographic diffusers 70 (1989) 77
Sergeev, A.S., see N.S. Ginzburg 70 (1989) 218
Shah, M., see T.G. Pavlopoulos 70 (1989) 425
Shi, C.-X., Theory of anisotropic optical fibers with finite cladding 70 (1989) 384
Shibuya, M., The relation between offence against the sine condition in the presence of spherical aberration and lateral aberration 70 (1989) 12
Sinha, B.K., S.R. Kumbhare and G.P. Gupta, Effect of collisional and Landau damping on the saturation of $(3/2)\omega_0$ emissions from laser-produced plasmas 70 (1989) 202
Skupsky, S. and T. Kessler, A source of hot spots in frequency-triplet laser light 70 (1989) 123
Slosser, J.J., see P. Meystre 70 (1989) 103
Smith, D.D., see T. Tsang 70 (1989) 115
Smith, S.D., see G.S. Buller 70 (1989) 522
Sprik, R., see R. Vreeker 70 (1989) 365
Stace, C., A.K. Powell, K. Walsh and T.J. Hall, Coupling modulation in photorefractive materials by applying ac electric fields 70 (1989) 509
Ståhlberg, B., P. Jungner and T. Fellman, Modulation techniques in three-level laser spectroscopy of a neon discharge 70 (1989) 329
Stegeman, G.I., see S. Trillo 70 (1989) 166
Streater, A.D., see F. Wittgrefe 70 (1989) 315
Sun, J.G. and A. Puri, Kramers–Kronig relations in media with spatial dispersion 70 (1989) 33

Taylor, J.R., see A.S. Gouveia-Neto 70 (1989) 128
Tofani, A., see P. Burlamacchi 70 (1989) 405
Tomov, I., see N. Michailov 70 (1989) 137
Trillo, S., S. Wabnitz, E.M. Wright and G.I. Stegeman, Polarized soliton instability and branching in birefringent fibers 70 (1989) 166
Trutschel, U., see A. Roeseler 70 (1989) 8
Tsang, T. and D.D. Smith, Surface-enhanced nonequilibrium electronic heating in thin silver films due to the excitation of single metal-boundary surface plasmons 70 (1989) 115

Umeda, T., see S. Ohke 70 (1989) 92
Urquhart, P., see C.A. Millar 70 (1989) 304
Uzunov, I.M., V.M. Mitev and L.M. Kovachev, Propagation of one-soliton pulses successions in monomode optical fibers 70 (1989) 389

Vaccaro, J.A. and D.T. Pegg, Phase properties of squeezed states of light 70 (1989) 529

Van Albada, M.P., see R. Vreeker 70 (1989) 365
Van Exter, M. and A. Lagendijk, Observation of the phase of a Raman oscillation 70 (1989) 433
Vanni, P., see P. Burlamacchi 70 (1989) 405
Vasu, R.M., see A. Senthil Kumar 70 (1989) 77
Velikovich, A.L., see M.I. Dykman 70 (1989) 151
Vicari, L., Truncation of non diffracting beams 70 (1989) 263
Vilaseca, R., J. Martorell, R. Corbalan and F. Laguarta, Theoretical study of bi-directional emission in optically-pumped ring-cavity FIR lasers 70 (1989) 131
Vreeker, R., M.P. van Albada, R. Sprik and A. Lagendijk, Depolarization of femtosecond laser pulses in disordered media 70 (1989) 365
Vukovic, S., see R. Dragila 70 (1989) 450

Wabnitz, S., see S. Trillo 70 (1989) 166
Walker, A.C., see G.S. Buller 70 (1989) 522
Walsh, K., see C. Stace 70 (1989) 509
Wan, L.-F., see H.-E. Gu 70 (1989) 141
Wang, J.-L., see S.-M. Liu 70 (1989) 185
Wang, Y., B. Lin, T. Xia and Y. Qian, Temporal characteristics of the laser pulse for a gold vapor laser 70 (1989) 234
Wang, Y., Y. Cheng and W. Cai, Collimation of an atomic beam using retarded dipole force 70 (1989) 462
Wang, Z., see S. Lin 70 (1989) 87
Wang, Z., see J. Ma 70 (1989) 181
Wang, Z., see M. Liang 70 (1989) 299
Weiss, S. and B. Fischer, Photorefractive saturable absorptive and dispersive optical bistability 70 (1989) 515
Wigley, P.G.J., see A.S. Gouveia-Neto 70 (1989) 128
Willi, O., D. Bassett, A. Giulietti and S.J. Karttunen, Nonlinear interaction of an intense laser beam with millimeter sized underdense plasmas 70 (1989) 487
Wittgrefe, F., A.D. Streater, M.D. Hoogerland, E.R. Eliel and J.P. Woerdman, Direct measurement of light-induced drift velocities in Rb–Ar mixtures 70 (1989) 315
Woerdman, J.P., see F. Wittgrefe 70 (1989) 315
Wright, E.M., see S. Trillo 70 (1989) 166
Wu, S., see J. Ma 70 (1989) 181
Wu, S., see M. Liang 70 (1989) 299

Xia, T., see Y. Wang 70 (1989) 234
Xie, J.-G., see D. Lo 70 (1989) 248

Yamanaka, C., see H. Niki 70 (1989) 16
Yang, X., see B. Lu 70 (1989) 177
Yezekian, S.T., S.A. Michaelian, K.B. Petrossian and K.M. Pokhsrarian, Q-switching of neodymium-doped solid-state lasers by molecular caesium vapour 70 (1989) 493
Yoshimura, T., Estimation of enhancement in third-order nonlinear susceptibility induced by a sharpening absorption band 70 (1989) 535
Yu, F.T.S., see Y. Li 70 (1989) 1

Zahid, M. and M.S. Zubairy, Directionality of partially coherent Bessel–Gauss beams 70 (1989) 361

Zambon, B., see D. Hennequin 70 (1989) 253
Zhang, G.-Y., see S.-M. Liu 70 (1989) 185
Zhao, M.-J. and Y.-L. Li, Producing two-pair phase conjugate waves by Fe:$LiNbO_3$ crystals' higher order nonlinear effect 70 (1989) 67
Zhu, J., Y. Li and G. Eichmann, Parallel optical conversion preprocessing for fast digital multiplication using a content-addressable logic array 70 (1989) 373
Zimmermann, C., see R. Kallenbach 70 (1989) 56
Zolotorev, M.S., see L.M. Barkov 70 (1989) 467
Zubairy, M.S., see M. Zahid 70 (1989) 361

SUBJECT INDEX TO VOLUME 70

Propagation and transmission in homogeneous media

Intensity distribution near the focus of an apertured focused gaussian beam, Y. Li and F.T.S. Yu 70 (1989) 1
Prismless excitation of surface plasmons in the infrared spectral region by ATR, A. Roeseler, M. Golz, U. Trutschel and M. Abraham 70 (1989) 8
The relation between offence against the sine condition in the presence of spherical aberration and lateral aberration, M. Shibuya 70 (1989) 12
A source of hot spots in frequency-triplet laser light, S. Skupsky and T. Kessler 70 (1989) 123
Electromagnetic scattering by large rotating particles in the eikonal formalism, C. Bourrely, P. Chiappetta and T. Lemaire 70 (1989) 173
Ray localization in gaussian beams, B. Maheu, G. Gréhan and G. Gouesbet 70 (1989) 259
Truncation of non diffracting beams, L. Vicari 70 (1989) 263
Lau effect in a multi-grating system, L. Liu 70 (1989) 267
Novel effects in transient optical reflectivity from bounded nonlocal media via exciton polaritons, S.V. Branis, K. Arya and J.L. Birman 70 (1989) 355
Directionality of partially coherent Bessel–Gauss beams, M. Zahid and M.S. Zubairy 70 (1989) 361
Constant radial shearing interferometry with two spiral phase gratings, Q.-S. Ru, N. Ohyama and T. Honda 70 (1989) 445
Nonlinear surface waves propagating along a boundary of magnetoactive plasma and vacuum, R. Dragila and S. Vukovic 70 (1989) 450

Propagation and transmission in inhomogeneous media

Calculation of 2D optical dielectric function of inhomogeneous media by real space renormalization, S. Berthier and K. Driss-Khodja 70 (1989) 29
Depolarization of femtosecond laser pulses in disordered media, R. Vreeker, M.P. van Albada, R. Sprik and A. Lagendijk 70 (1989) 365

Optical information, image formation and analysis, optical computing

Real-time and double-exposure phase-conjugate interferometries using eosin-doped gelatin film, K. Nakagawa and H. Fujiwara 70 (1989) 73
Imaging with oriented photographic diffusers, A. Senthil Kumar and R.M. Vasu 70 (1989) 77
Adaptive holographic interferometry using photorefractive crystals, J. Frejlich, A.A. Kamshilin, V.V. Kulikov and E.V. Mokrushina 70 (1989) 82
Optical implementation of 2-D Hopfield model for 2-D associative memory, S. Lin, L. Liu and Z. Wang 70 (1989) 87
Time-average subtraction method in electronic speckle pattern interferometry, B. Lu, X. Yang, H. Abendroth and H. Eggers 70 (1989) 177
Photorefractive spatial light modulation by electrocontrolled beam coupling in SBN:Ce crystals, J. Ma, L. Liu, S. Wu, Z. Wang, P. Mormile, G. Pierattini and S. De Nicola 70 (1989) 181

Quasi-periodic oscillations in photoinduced conical light scattering from $LiNbO_3$:Fe crystals, S.-M. Liu, G.-Y. Zhang, J.-L. Wang, X.-Y. Ma and Y.-F. Fu 70 (1989) 185
Stabilization of photorefractive two-beam coupling in InP:Fe under high dc fields by temperature control, P. Gravey, G. Picoli and J.Y. Labandibar 70 (1989) 190
Contrast manipulation and controllable spatial filtering via photorefractive two-beam coupling, J.A. Khoury, G. Hussain and R.W. Eason 70 (1989) 272
On holographic properties of methylene blue sensitized dichromated gelatin developed without posthardening, O. Salminen, T. Keinonen and M. Pellinen 70 (1989) 277
Collapse and revival phenomena in the many-atom Jaynes–Cummings model in the presence of initial Fock- and coherent-state fields, J. Seke, O. Hittmair and F. Rattay 70 (1989) 281
Improvement of Young's fringes' visibility in speckle photography by use of BSO-PROM device, K. Nakagawa and T. Minemoto 70 (1989) 288
Double layer associative memories, T.Y.D. Lam and J.E. Carroll 70 (1989) 293
A novel optical multichannel scale-range-tunable Fourier transforming system: theory, M. Liang, S. Wu, L. Liu and Z. Wang 70 (1989) 299
Deconvolution using nonlinear joint transform correlator, B. Javidi, J.L. Horner and H.J. Caulfield 70 (1989) 369
Parallel optical conversion preprocessing for fast digital multiplication using a content-addressable logic array, J. Zhu, Y. Li and G. Eichmann 70 (1989) 373
Optical position-coded multiple-valued logic and arithmetic using liquid-crystal TVs and holograms, Y. Li, B. Ha, A. Kostrzewski, D.H. Kim and G. Eichmann 70 (1989) 379
Symbolic substitution based flagged arithmetic unit design using polarization-encoded optical shadow-casting system, A.K. Cherri and M.A. Karim 70 (1989) 455

Optical communications

TM-mode propagation and form birefringence in GaAs-AlGaAs multiple quantum well optical waveguide, S. Ohke, T. Umeda and Y. Cho 70 (1989) 92
Coherent Raman spectra and Raman-enhanced self-focusing in multimode fiber, G.-S. He, D. Liu and S.-H. Liu 70 (1989) 145
Fibre reflection Mach–Zehnder interferometer, C.A. Millar, D. Harvey and P. Urquhart 70 (1989) 304
On stochastic dynamics of solitons in inhomogeneous optical fibers, F.G. Bass, Yu.S. Kivshar, V.V. Konotop and G.M. Pritula 70 (1989) 309
Theory of anisotropic optical fibers with finite cladding, C.-X. Shi 70 (1989) 384
Propagation of one-soliton pulses successions in monomode optical fibers, I.M. Uzunov, V.M. Mitev and L.M. Kovachev 70 (1989) 389

Atomic and molecular physics

Hyperfine structure and isotope shift measurements on gadolinium levels by a laser-induced fluorescence spectroscopy, H. Niki, T. Miyamoto, Y. Izawa, S. Nakai and C. Yamanaka 70 (1989) 16
The effects of negative binomial field distribution on Rabi oscillations in a two-level atom, A. Joshi and S.V. Lawande 70 (1989) 21
Jaynes–Cummings model with atomic motion, R.R. Schlicher 70 (1989) 97
Destruction of quantum coherence in a micromaser by finite detection efficiency, P. Meystre and J.J. Slosser 70 (1989) 103
Graphical representation of squeezed-state variances, R. Loudon 70 (1989) 109

Direct measurement of light-induced drift velocities in Rb–Ar mixtures, F. Wittgrefe, A.D. Streater, M.D. Hoogerland, E.R. Eliel and J.P. Woerdman 70 (1989) 315
Optically pumped lasers from Na_2 $D^1\Pi_u$ state, P. Bernage, P. Niay and H. Bocquet 70 (1989) 319
Two-photon-excited bidirectional emission in xenon, M.B. Rankin, J.P. Davis, C. Giranda and L.C. Bobb 70 (1989) 345
Free induction decay of inhomogeneously broadened lines, K. Bratengeier, H.-G. Purucker and A. Laubereau 70 (1989) 393
Collimation of an atomic beam using retarded dipole force, Y. Wang, Y. Cheng and W. Cai 70 (1989) 462
Nonlinear Faraday rotation in samarium vapor, L.M. Barkov, D.A. Melik-Pashayev and M.S. Zolotorev 70 (1989) 467
Simultaneous jumps in two two-level atoms, M.S. Kim, F.A.M. de Oliveira and P.L. Knight 70 (1989) 473
Dephasing processes as studied by two pulse photon echoes and photochemically accumulated echoes: the question of spectral diffusion in a doped organic polymer matrix, A. Rebane and D. Haarer 70 (1989) 478

Condensed matter

Circle diagram representation of optical constants of metals and metal films, S. Kawakami, T. Kataoka and K. Baba 70 (1989) 25
Calculation of 2D optical dielectric function of inhomogeneous media by real space renormalization, S. Berthier and K. Driss-Khodja 70 (1989) 29
Kramers–Kronig relations in media with spatial dispersion, J.G. Sun and A. Puri 70 (1989) 33
Surface-enhanced nonequilibrium electronic heating in thin silver films due to the excitation of single metal-boundary surface plasmons, T. Tsang and D.D. Smith 70 (1989) 115
Crystallization of hydrogenated amorphous silicon films by pulsed ruby laser irradiation, H.W. Lee, T.D. Lee, C.O. Park, D.H. Ha and J.K. Kim 70 (1989) 119
Stabilization of photorefractive two-beam coupling in InP:Fe under high dc fields by temperature control, P. Gravey, G. Picoli and J.Y. Labandibar 70 (1989) 190
Spectroscopy of symmetry broken optical doublets in Pr^{+3}:LaF_3, M. Lukac and E.L. Hahn 70 (1989) 195
Zero optical rotatory power in mercurous chloride crystals, H.H. Sample, K.A. McCarthy, Č. Barta, E. Koštál, M. Klíma and Č. Barta Jr. 70 (1989) 325
Novel effects in transient optical reflectivity from bounded nonlocal media via exciton polaritons, S.V. Branis, K. Arya and J.L. Birman 70 (1989) 355
Time resolved excited state absorption of Mn^{2+}, K. Petermann, R. Clausen, E. Heumann and M. Ledig 70 (1989) 483

Plasmas

Second harmonic polarization and conversion efficiency in laser produced sparks, D. Batani, F. Bianconi, A. Giulietti, D. Giulietti and L. Nocera 70 (1989) 38
Evidence for periodic breakup of a radially modulated 0.35 μm laser beam due to thermal self-focusing in a plasma, C. Joshi, C.E. Clayton, K. Marsh, Y. Sakawa and R.L. Savage Jr. 70 (1989) 44
Study of Schlieren diagnostics to investigate filamentation in plasmas with long density scale lengths, S.-D. Baton, C. Labaune, G. Mathieussent and W. Seka 70 (1989) 50
Effect of collisional and Landau damping on the saturation of $(3/2)\omega_0$ emissions from laser-produced plasmas, B.K. Sinha, S.R. Kumbhare and G.P. Gupta 70 (1989) 202
Transmission filter for the "water-window" wavelength region 23–44 Å, J.F. Seely 70 (1989) 207

Ultra-short pulse filamentation in a laser-produced plasma, T.A. Hall and L.M. Newell 70 (1989) 213
Modulation techniques in three-level laser spectroscopy of a neon discharge, B. Ståhlberg, P. Jungner and T. Fellman 70 (1989) 329
Discharge production of fluorine for DF lasers, E.K. Gorton, E.W. Parcell and P.H. Cross 70 (1989) 399
Nonlinear surface waves propagating along a boundary of magnetoactive plasma and vacuum, R. Dragila and S. Vukovic 70 (1989) 450
Nonlinear interaction of an intense laser beam with millimeter sized underdense plasmas, O. Willi, D. Bassett, A. Giulietti and S.J. Karttunen 70 (1989) 487

Lasers

A blue dye laser with sub-kilohertz stability, R. Kallenbach, C. Zimmermann, D.H. McIntyre, T.W. Hänsch and R.G. DeVoe 70 (1989) 56
A source of hot spots in frequency-triplet laser light, S. Skupsky and T. Kessler 70 (1989) 123
A synchronously pumped dispersion compensated fibre Raman ring laser around 1.4 μm, A.S. Gouveia-Neto, P.G.J. Wigley and J.R. Taylor 70 (1989) 128
Theoretical study of bi-directional emission in optically-pumped ring-cavity FIR lasers, R. Vilaseca, J. Martorell, R. Corbalan and F. Laguarta 70 (1989) 131
Novel absorber for passive mode-locking of Rhodamine 6G dye laser, N. Michailov, T. Deligeorgiev, V. Petrov and I. Tomov 70 (1989) 137
The two-step creation and tunable laser operation of F_3^+ centers in LiF crystals, H.-E. Gu, L. Qi, L.-F. Wan and H.-S. Guo 70 (1989) 141
Ultra-short pulse filamentation in a laser-produced plasma, T.A. Hall and L.M. Newell 70 (1989) 213
Canalization of radiation by a ribbon relativistic electron beam in free electron lasers, N.S. Ginzburg and A.S. Sergeev 70 (1989) 218
Excimer-laser pumped infrared dye laser at 907–1023 nm, L.A. Bloomfield 70 (1989) 223
Colour centre laser pumped by a laser diode, J.L. Doualan 70 (1989) 225
Modelocking using mirrors with intensity dependent reflection coefficients, J.R.M. Barr 70 (1989) 229
Temporal characteristics of the laser pulse for a gold vapor laser, Y. Wang, B. Lin, T. Xia and Y. Qian 70 (1989) 234
A fiber grating Raman laser generating subpicosecond pulses, R. Schulz, M. Kuckartz and H. Harde 70 (1989) 239
A semiconductor preionised DF laser, E.K. Gorton, P.H. Cross and E.W. Parcell 70 (1989) 245
Ray localization in gaussian beams, B. Maheu, G. Gréhan and G. Gouesbet 70 (1989) 259
Flashlamp pumped tunable laser emission of "F_{2A}" centres in SrF_2:Na^+, L. Mechernene, J.L. Doualan, J. Margerie and K. Mazighi 70 (1989) 334
XeCl laser pumped iodine laser using t-C_4F_9I, I.H. Hwang, K.S. Han and J.H. Lee 70 (1989) 341
Discharge production of fluorine for DF lasers, E.K. Gorton, E.W. Parcell and P.H. Cross 70 (1989) 399
Performance of a quasi-static gas flow CO_2 laser, P. Burlamacchi, A. Tofani and P. Vanni 70 (1989) 405
Pulsed optically pumped laser and maser action in isotopically substituted OCS, H.N. Rutt and K.C. Hawkins 70 (1989) 411
Injection current calibration of diode laser wavelengths, J.C. Camparo, Y.C. Chan, B. Jaduszliwer and J. Malenfant 70 (1989) 416
First experimental evidence of nonlinear gain saturation in distributed feeback (DFB) and helical feedback (HFB) lasers, J. Arnesson, D. Cui, S. Gnepf and F.K. Kneubühl 70 (1989) 421
Efficient laser action from 1,3,5,7,8-pentamethylpyrromethene-BF_2 complex and its disodium 2,6-disulfonate derivative, T.G. Pavlopoulos, M. Shah and J.H. Boyer 70 (1989) 425
Time resolved excited state absorption of Mn^{2+}, K. Petermann, R. Clausen, E. Heumann and M. Ledig 70 (1989) 483

Q-switching of neodymium-doped solid-state lasers by molecular caesium vapour, S.T. Yezekian, S.A. Michaelian, K.B. Petrossian and K.M. Pokhsrarian 70 (1989) 493
Mode-locking dynamics of a laser coupled to an empty external cavity, S.M.J. Kelly 70 (1989) 495

Nonlinear optics

Shift in the position of the bifurcation point in an acousto-optic bistable device with swept parameter, C.J. Marriott and C. Delisle 70 (1989) 61
Producing two-pair phase conjugate waves by Fe:$LiNbO_3$ crystals' higher order nonlinear effect, M.-J. Zhao and Y.-L. Li 70 (1989) 67
Optical bistability in bulk $GeSe_2$, E. Haro-Poniatowski, M. Fernandez Guasti, E.R. Mendez and M. Balkanski 70 (1989) 70
Destruction of quantum coherence in a micromaser by finite detection efficiency, P. Meystre and J.J. Slosser 70 (1989) 103
Graphical representation of squeezed-state variances, R. Loudon 70 (1989) 109
Coherent Raman spectra and Raman-enhanced self-focusing in multimode fiber, G.-S. He, D. Liu and S.-H. Liu 70 (1989) 145
Bistability and self-oscillations in a cavity due to a self-induced optical anisotropy, M.I. Dykman and A.L. Velikovich 70 (1989) 151
Delayed bifurcation at the threshold of a swept gain CO_2 laser, F.T. Arecchi, W. Gadomski, R. Meucci and J.A. Roversi 70 (1989) 155
Spatial structure multistability in an array of optically bistable elements, Yu.A. Rzhanov and Yu.D. Kalafati 70 (1989) 161
Polarized soliton instability and branching in birefringent fibers, S. Trillo, S. Wabnitz, E.M. Wright and G.I. Stegeman 70 (1989) 166
Superfluorescent emission from a discharge-excited rare-gas halide system, D. Lo and J.-G. Xie 70 (1989) 248
Influence of noise on the quasi-homoclinic behavior of a laser with saturable absorber, D. Hennequin, F. de Tomasi, L. Fronzoni, B. Zambon and E. Arimondo 70 (1989) 253
On stochastic dynamics of solitons in inhomogeneous optical fibers, F.G. Bass, Yu.S. Kivshar, V.V. Konotop and G.M. Pritula 70 (1989) 309
Two-photon-excited bidirectional emission in xenon, M.B. Rankin, J.P. Davis, C. Giranda and L.C. Bobb 70 (1989) 345
Synchronously pumped optical parametric oscillation in KTP, L.J. Bromley, A. Guy and D.C. Hanna 70 (1989) 350
Generation of VUV radiation by frequency tripling in Ar and Kr crystals, G. Schilling, W.E. Ernst and N. Schwentner 70 (1989) 428
Observation of the phase of a Raman oscillation, M. van Exter and A. Lagendijk 70 (1989) 433
On quantum superpositions in dispersive optical bistability, C.M. Savage and W.A. Cheng 70 (1989) 439
Nonlinear surface waves propagating along a boundary of magnetoactive plasma and vacuum, R. Dragila and S. Vukovic 70 (1989) 450
Dephasing processes as studied by two pulse photon echoes and photochemically accumulated echoes: the question of spectral diffusion in a doped organic polymer matrix, A. Rebane and D. Haarer 70 (1989) 478
Interferometric technique for the determination of thermal nonlinearities in semiconductor glasses, G. Abbate, U. Bernini, P. Maddalena, S. De Nicola, P. Mormile and G. Pierattini 70 (1989) 502
Coupling modulation in photorefractive materials by applying ac electric fields, C. Stace, A.K. Powell, K. Walsh and T.J. Hall 70 (1989) 509

Photorefractive saturable absorptive and dispersive optical bistability, S. Weiss and B. Fischer 70 (1989) 515
Optically bistable nonlinear interference filters for use with near-infrared laser diodes, G.S. Buller, C.R. Paton, S.D. Smith and A.C. Walker 70 (1989) 522
Phase properties of squeezed states of light, J.A. Vaccaro and D.T. Pegg 70 (1989) 529
Estimation of enhancement in third-order nonlinear susceptibility induced by a sharpening absorption band, T. Yoshimura 70 (1989) 535
Possibility of new resonances in transient nonlinear spectroscopy, M. Sanjay Kumar and G.S. Agarwal 70 (1989) 538